

STEEL FOR LARGE-SIZED BEARING AND LARGE-SIZED BEARING PARTS**Publication number:** JP2001123244**Publication date:** 2001-05-08**Inventor:** KUREBAYASHI YUTAKA; NAKAMURA SADAYUKI;
HATTORI KIYOYUKI; KIZAWA KATSUHIKO**Applicant:** DAIDO STEEL CO LTD; KOYO SEIKO CO**Classification:****- International:** *F16C33/12; C22C38/00; C22C38/02; C22C38/04;
C22C38/18; F16C33/30; F16C33/62; C21D8/00;
C21D9/40; F16C33/04; C22C38/00; C22C38/02;
C22C38/04; C22C38/18; F16C33/30; F16C33/62;
C21D8/00; C21D9/40; (IPC1-7): C22C38/00; F16C33/12***- European:** C22C38/02; C22C38/04; C22C38/18; F16C33/30**Application number:** JP19990299760 19991021**Priority number(s):** JP19990299760 19991021**Also published as:**

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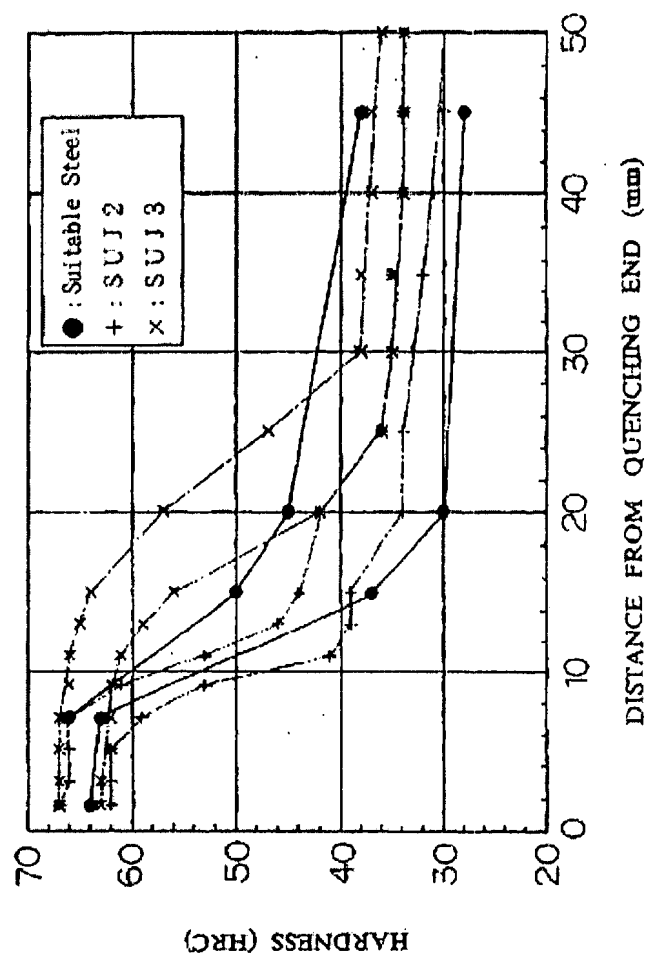
US6582532 (B1)

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PROBLEM TO BE SOLVED: To produce steel for a large-sized bearing excellent in breaking resistance and rolling fatigue life characteristics and suitable for large-sized bearing parts.

SOLUTION: This steel for a large-sized bearing has a chemical componential composition containing, by mass, 0.80 to 1.30% C, >0.35 to 0.80% Si, 0.30 to 0.90% Mn, 0.90 to 1.50% Cr, one or two kinds of ≤0.25% Mo and 0.20 to 1.50% Ni, and the balance Fe with impurities, and in which hardenability by a hardenability testing method for steel established by JIS G 0561 is controlled to Q64 HRC in J 1.5 mm, to 63 to 66 HRC in J 7 mm, to 37 to 50 HRC in J 15 mm, to 30 to 45 HRC in J 20 mm, and to 28 to 38 HRC in J 45 mm.

FIG. 1



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